



ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EALS)

ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EALS)

Brand name ^{b, k, l} Base fluids	Maximum allowed Treat rate ^{a, c}						if less than 100% see ^d or ^e			Valid till	Biobased Fraction ^{h, i}	Fraction certified renewable ingredients ^{a, h, j}	Typical Properties				
	ALL (no grease)	ALL (only grease)	PLL (no grease)	PLL (only grease)	TLL (no grease)	TLL (only grease)	EEL Biodegradation ^d	EEL Aquatic Toxicity ^e	CB Assessed				KV @ 40 °C (mm ² /s)	Viscosity Index	Iodine Value (gI ₂ /100g)	Pour Point (°C)	Flash Point (°C)
							A/B/C/X/ ^f	D/E/F/G(M ^g)/ ^f									
Base Fluids																	
Docadit 33	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	0%		3.3	256	0.1	<-80	158
Waglinol 13088 F MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	62%	67%RSPO	5.2	238	2.5	-24	170
Weichol 3/134 W MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	89%	86%RSPO	48	187	80	-45	310
Docadit 440 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	85%	85%RSPO	44	180	72	-52	310
Weichol 3/134 A MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	84%	80%RSPO	65	184	78	-15	310
Waglinol 3/13480 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	81%	78%RSPO	19.5	140	0.5	-37	260
Waglinol 4/13680 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	87%	82%RSPO	30	151	0.5	-15	280
Docadit 470	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	87%		46	148	3	-25*	270
Soldoc 3/134	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	82%		90	143	3	-27	300
Soldoc 4/136	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	93%		145	140	3	-30	300
Docadit 945	10%	20%	25%	20%	5%	20%	100% B	100% D	Dutch	31 December 2028	71%		95	157	60	-45	280
Docadit HT 1646	5%	15%	20%	15%	5%	15%	100% C	100% D	Dutch	31 December 2028	0%		380	88	0.1	-10	300
Docadit LT 1582	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	20%		47	160	3	<-60	235
Docadit LT 1501	5%	15%	20%	15%	5%	15%	100% C	100% D	Dutch	31 December 2028	0%		144	160	1	-30	290
Docadit FL 90	5%	15%	20%	15%	5%	15%	100% C	100% D	Dutch	31 December 2028	0%		390	94	1	-12	295
Docadit FL 136 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	100%	83%RSPO	14	136	0.2	-9	245
Docadit FL 140 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	83%	78%RSPO	18.5	140	0.3	-35	255
Docadit FL 144	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	92%		100	144	4	-24	295
Docadit FL 150 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	59%	51%RSPO	325	155	0.1	-26	290
Docadit FL 155 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	87%	43%RSPO	330	155	14	-37	280
Docadit FL 184 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	88%	80%RSPO	70	184	83	-35	300
Docadit FL 185 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	91%	86%RSPO	50	185	85	-40	315
Docadit FL 190 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	91%	50%RSPO	1000	190	85	-25	300
Docadit VII L	7%	22%	29%	22%	7%	22%	32% B; 68% C	100% D	Dutch	31 December 2028	83%		11000	242	30	-	300
Docadit VII M	5%	15%	21%	15%	5%	15%	3% A; 97% C	100% D	Dutch	31 December 2028	86%		34000	263	-	-	340
Docadit VII H	5%	15%	20%	15%	5%	15%	100% C	100% D	Dutch	31 December 2028	86%		60000	288	-	-	320
Docadit 3200 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	86%	43%RSPO	315	157	10	-40	270
Docadit 5000	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	92%		490	152	2.5	-24	300
Docadit 10000 MB	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	90%	50%RSPO	1040	188	80	-23	310
Docadit 10010	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	92%		930	165	2.5	-30	300
Docadit 10020	Not limited by biodegradation and water toxicity						100% A	100% D	Dutch	31 December 2028	67%		1030	172	0.8	-26	300
Docadit 17000	14%	31%	39%	31%	8%	31%	64% B; 36% C	100% D	Dutch	31 December 2028	80%		1700	171	32	-20	300
Docadit HV	5%	15%	21%	15%	5%	15%	3% B; 97% C	100% D	Dutch	31 December 2028	86%		47000	277	60	-	310
Docadit HV HG	5%	15%	21%	15%	5%	15%	3% B; 97% C	100% D	Dutch	31 December 2028	86%		47000	277	-	-	310
Docadit HV10	7%	22%	29%	22%	7%	22%	32% B; 68% C	100% D	Dutch	31 December 2028	82%		10000	225	37	-	300

* Cloud Point

ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EALS)



EU Ecolabel for lubricants has created a Lubricants Classification List (LuSC-list), where new criteria of 2018 revision, effective from 1st January 2019, included to the list different limits depending on total loss lubricants (TLL), partial loss lubricants (PLL) and accidental loss lubricants (ALL). Being consistent with the strategic lines and reason for being of the Business, IQLubricants has 35 products included into the LuSC-list allowing to formulators directly use the products into their EAL formulas to apply for EU Ecolable labeling. In the same way, IQLubricants encourage the sector to explore new feasible and sustainable solutions.

- a)** In case the treat rates and the fraction certified renewable material indicated on the LuSC-list and on the LoC are different, the most recent data are valid.
- b)** Substances that are excluded by EU decision 2018/1702/EU according to Criterion 1 and uncertified Palm oil or Palm Kernel oil are not present above 0.010% in the final composition.
- c)** The treat rate is usually set by the supplier before the assessment. Highest treat rate is applied in case the additive may possess different functions. **The same or a lower treat rate for ANOTHER function does not alter its final EEL classification but in the ecolabel application form the correct function must be stated.**
- d)** In case classification of the biodegradation has not been set at 100% but at a smaller fraction, e.g. 30%, then the total fraction with the specific classification is equal to the fraction of the treat rate applied by the applicant multiplied by the indicated fraction of the classification; e.g. 0.6% (applied treat rate) * 80% C (assessed fraction of biodegradation) is equal to 0.48% C. The value of 0.48% must be filled in in the application form for the brand name on biodegradation. The fraction not assessed on biodegradation is then automatically $0.60 - 0.48 = 0.12\%$.
- e)** In case the classification of the aquatic toxicity has not been set at 100% but at a smaller fraction, e.g. 30%, then the total fraction with the specific classification is equal to the fraction of the treat rate applied by the applicant multiplied by the indicated fraction of the classification, e.g. 0.6% (applied treat rate) * 80% E is total of 0.48% E for the brand name. The value of 0.48% must be used in the application form. The fraction unassessed on aquatic toxicity is then automatically $0.60 - 0.48 = 0.12\%$.
- f)** – means that it was not necessary to assess the substance(s) in the lubricant based on the stated maximum treat rate and the 0.1% limit in the ecolabel criteria for biodegradation, aquatic toxicity and renewability.
- g)** M = Multiplication factor for a substance that has an acute aquatic toxicity classified as very toxic (G).
- h)** Related to Criterion 4 of the EU decision 2018/1702/EU.
- i)** bio-based fraction must be larger than >25% based on valid C-14 method. If the bio-based fraction is not established yet but renewable fraction based on C-counting method is >50%, the entry will indicate n.d. indicating that the bio-based fraction has not been established yet.
- j)** The fraction of certified renewable ingredients required for optional criterion 8c is indicated here. If nothing is stated it means that the applicant has declared that no certified material has been used in the manufacturing process. If stated e.g. 50%RPSO it indicates that the applicant has stated that this is the complete fraction of Palm oil or Palm Kernel oil applied in the product process AND that the manufacturing company has a valid RSPO certificate at the time of application. Currently only an RSPO certification scheme is approved. If another certification scheme may have been approved later then the common abbreviation of that scheme will be indicated. If stated e.g. 50%NC (Not Certified)(Palm) it indicates that the company of the applicant has stated that 50% of the mass of the based fluid originates from palm oil or palm kernel oil, that this is the complete fraction of Palm oil or Palm Kernel oil applied in the product but the company cannot submit a valid RSPO certificate or any other relevant certificate. The applicant must buy in due time the appropriate amount of credits for the specific type of renewable material which is palm oil in this case.
- k)** In case of any modifications in the composition and/or in the CLP classification of the product, the supplier shall without delay notify the competent body, that assessed the product concerned.
- l)** Only in case the name on the LuSc-list or LoC matches exactly the tradename on its corresponding SDS the treat rates and assessments are valid.

Tel. **+34 93 875 88 40**
iql.info@iql-nog.com
www.iql-nog.com



The descriptions, designs, data and information contained herein are presented in good faith, and are based on IQL's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contractual quality of the product or a part of IQL's terms and conditions of sale. Because many factors may affect processing or application/use of the product, IQL recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication given in this publication may change without prior information. The descriptions, designs, data, and information furnished by IQL hereunder are given free and IQL assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk. In case of a discrepancy, the English original will prevail.

©2024 Industrial Química Lasem, s.a.u. – Version November 2024